

03500.015809.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
KAZUSHI NOMURA ) : Examiner: P. J. Macchiarolo  
Application No.: 09/955,137 ) : Group Art Unit: 2875  
Filed: September 19, 2001 ) :  
For: ELECTRON-EMITTING DEVICE, )  
ELECTRON SOURCE, IMAGE )  
FORMING APPARATUS, AND )  
ELECTRON-EMITTING APPARATUS : January 16, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

For a concise explanation of relevance for various non-English documents listed on the enclosed Form PTO-1449, the Examiner is directed to the corresponding English-language abstracts, English translations, and/or English counterparts, where available, as indicated in association with the relevant non-English documents on the Form PTO-1449.

For the concise statement of relevance of non-English document  
CN 1181607A, the Examiner also is respectfully referred to English-language counterparts  
EP 0 836 217 A1 and WO 99/58748.

The Examiner's attention is also directed to the following U.S. Applications:

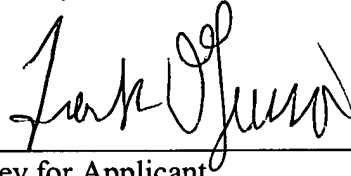
<u>APPLICATION NO.</u>	<u>FILING DATE</u>	<u>GROUP ART UNIT</u>
09/506,289	2/18/00	2818
09/666,605	09/20/00	2811

A copy of each cited application is enclosed.

It is respectfully requested that the above information be considered by the  
Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such  
information has been considered.

Applicant's undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

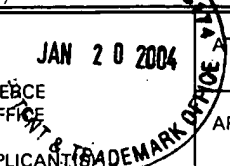
A handwritten signature in black ink, appearing to read "Frank J. Scinto", written over a horizontal line.

Attorney for Applicant

Registration No. 42,476

FITZPATRICK, CELLA, HARPER & SCINTO  
30 Rockefeller Plaza  
New York, New York 10112-3801  
Facsimile: (212) 218-2200


NY MAIN\_ #384949v1



FORM PTO 1449 (modified)		ATTY DOCKET NO. <b>03500.015809.</b>		APPLICATION NO. <b>09/955,137</b>		
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT <b>Kazushi Nomura</b>				
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		FILING DATE <b>September 19, 2001</b>		GROUP <b>2875</b>		
Date Submitted to PTO: [DATE]						
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2002/0031972 A1	03/02	Kitamura et al.	445	3	
	6,472,814 B1	10/02	Yamanobe et al.	313	495	11/13/98
	5,872,422	02/99	Xu et al.	313	311	
	6,087,765	07/00	Coll et al.	313	309	
	2002/0009637A1	01/02	Murakami et al.	429	213	02/05/01
	5,847,495	12/98	Yamanobe et al.	313	310	
	5,066,883	11/91	Yoshioka et al.	313	309	
	6,455,021 B1	09/02	Saito	423	447.3	07/20/99
	6,471,936 B1	10/02	Chen et al.	423	658.2	03/02/00
	6,313,572 B1	11/06/01	Yamada	313	310	
	6,283,812 B1	09/01	Jin et al.	445	24	
	5,986,389	11/16/99	Tsukamoto	313	310	
	6,171,162	01/09/01	Iwasaki et al.	445	6	
	6,184,610 B1	02/06/01	Shibata et al.	313	309	
	6,231,413 B1	05/15/01	Tsukamoto	445	24	
	6,246,168 B1	06/12/01	Kishi et al.	313	495	
	4,816,289	03/89	Komatsu et al	423	447.3	
	5,443,859	08/95	Nagata	427	122	
	5,618,875	04/97	Baker et al.	524	495	
	5,690,997	11/97	Grow	427	249.1	
EXAMINER			DATE CONSIDERED			

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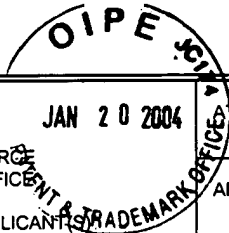
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FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			PATENT DOCKET NO. <b>03500.015809.</b>		APPLICATION NO. <b>09/955,137</b>	
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U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,129,602	10/00	Yamanobe	445	24	
	6,228,904	05/01	Yadav et al.	523	210	
	6,333,016	12/01	Resasco et al.	423	447.3	
	6,413,487	07/02	Resasco et al.	423	447.3	
	6,445,006	09/02	Brandes et al.	257	76	
	5,981,305	11/99	Hattori	438	20	
	6,290,564	9/01	Talin et al.	445	50	
	5,458,784	10/95	Baker et al.	210	674	
	6,331,690 B1	12/01	Yudasaka et al.	219	121.6	
	5,965,267	10/99	Nolan et al.	428	408	
	4,900,483	2/90	Witzke et al.	313	309	
	5,500,200	3/96	Mandeville et al.	423	447.3	
	5,726,524	3/98	Debe	313	309	
	5,770,918	06/98	Kawate et al.	313	495	
	5,185,554	02/93	Nomura et al.	313	495	
	6,626,719 B2	09/30/03	Ono et al.	445	24	01/10/97
	2003/0048056 A1	03/13/03	Kitamura et al.	313	311	
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FORM PTO 1449 (modified)			ATTY DOCKET NO. <b>03500.015809.</b>		APPLICATION NO. <b>09/955,137</b>	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			APPLICANT <b>Kazushi Nomura</b>			
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U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	<b>6,517,399 B1</b>	<b>02/11/03</b>	<b>Ito et al.</b>	<b>445</b>	<b>24</b>	<b>09/21/99</b>
	<b>6,512,329 B1</b>	<b>01/28/03</b>	<b>Mitsutake et al.</b>	<b>313</b>	<b>495</b>	<b>03/30/98</b>
	<b>6,435,928 B1</b>	<b>08/20/02</b>	<b>Tsukamoto</b>	<b>445</b>	<b>24</b>	<b>08/04/00</b>
	<b>6,283,815 B1</b>	<b>09/04/01</b>	<b>Iwasaki et al.</b>	<b>445</b>	<b>41</b>	
	<b>2003/0048055 A1</b>	<b>03/13/03</b>	<b>Ishikura et al.</b>	<b>313</b>	<b>311</b>	
	<b>2003/0057860 A1</b>	<b>03/27/03</b>	<b>Tsukamoto</b>	<b>315</b>	<b>169.3</b>	
	<b>2003/0006684 A1</b>	<b>01/09/03</b>	<b>Kawate et al.</b>	<b>313</b>	<b>311</b>	
	<b>6,097,138</b>	<b>08/01/00</b>	<b>Nakamoto</b>	<b>313</b>	<b>309</b>	
	<b>6,624,589 B2</b>	<b>09/23/03</b>	<b>Kitamura et al.</b>	<b>315</b>	<b>169.3</b>	<b>05/29/01</b>
	<b>6,628,053 B1</b>	<b>09/30/03</b>	<b>Den et al.</b>	<b>313</b>	<b>310</b>	<b>10/26/98</b>
	<b>6,541,906 B2</b>	<b>04/01/03</b>	<b>Lee et al.</b>	<b>313</b>	<b>495</b>	<b>05/23/01</b>
	<b>6,605,894 B2</b>	<b>08/12/03</b>	<b>Choi et al.</b>	<b>313</b>	<b>495</b>	<b>05/31/01</b>
	<b>6,135,839</b>	<b>10/24/00</b>	<b>Iwase et al.</b>	<b>445</b>	<b>24</b>	
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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

**03500.015809.**

APPLICATION NO.

**09/955,137**

APPLICANT

**Kazushi Nomura**

FILING DATE

**September 19, 2001**

GROUP

**2875**LIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	<b>11-194134</b>	<b>07/99</b>	<b>Japan</b>	<b>G01N</b>	<b>37/00</b>	<b>Abst.</b>
	<b>11-139815</b>	<b>05/99</b>	<b>Japan</b>	<b>C01B</b>	<b>31/02</b>	<b>Abst.</b>
	<b>0 535 953 B1</b>	<b>01/96</b>	<b>EPO</b>	<b>H01J</b>	<b>1/30</b>	<b>English</b>
	<b>0 290 026 B1</b>	<b>02/93</b>	<b>EPO</b>	<b>H01J</b>	<b>3/02</b>	<b>English</b>
	<b>1 122 344 A2</b>	<b>08/01</b>	<b>EPO</b>	<b>D01F</b>	<b>9/127</b>	<b>English</b>
	<b>WO 01/93292</b>	<b>12/01</b>	<b>PCT</b>	<b>H01J</b>	<b>1/304</b>	<b>English</b>
	<b>08-115652</b>	<b>05/07/96</b>	<b>Japan</b>	<b>H01J</b>	<b>1/30</b>	<b>Abst. &amp; Trans.</b>
	<b>0 913 508 A2</b>	<b>05/06/99</b>	<b>EPO</b>	<b>D01F</b>	<b>9/127</b>	<b>English</b>
	<b>1 022 763 A1</b>	<b>7/00</b>	<b>EPO</b>	<b>H01J</b>	<b>9/02</b>	<b>English</b>
	<b>2000-223005</b>	<b>8/00</b>	<b>Japan</b>	<b>H01J</b>	<b>1/304</b>	<b>Abst. &amp; Counterpart U.S. Patent 6,283,812</b>
	<b>0 836 217 A1</b>	<b>04/98</b>	<b>EPO</b>	<b>H01J</b>	<b>29/94</b>	<b>English</b>
	<b>WO 99/58748</b>	<b>11/99</b>	<b>PCT</b>	<b>D01F</b>	<b>9/127</b>	<b>English</b>
	<b>CN 1181607A</b>	<b>5/98</b>	<b>China</b>			<b>English Counterparts 0 836 217 &amp; 99/58748</b>
	<b>1 187 161 A2</b>	<b>03/13/02</b>	<b>EPO</b>	<b>H01J</b>	<b>3/02</b>	<b>English</b>
	<b>1 102 299 A1</b>	<b>5/01</b>	<b>EPO</b>	<b>H01J</b>	<b>1/30</b>	<b>English</b>
	<b>1 096 533 A1</b>	<b>5/01</b>	<b>EPO</b>	<b>H01J</b>	<b>9/02</b>	<b>English</b>
	<b>WO 01/26130</b>	<b>4/01</b>	<b>WIPO</b>	<b>H01J</b>	<b>9/20</b>	<b>English</b>

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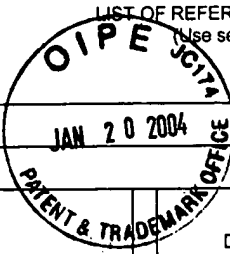
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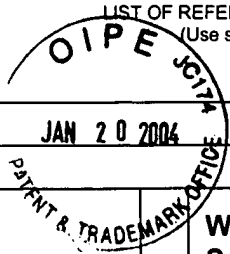
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FOREIGN PATENT DOCUMENTS						
NO.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	GB 2 308 495 A	6/97	UK	H01J	1/20	English
	1 120 877 A1	8/01	EPO	H02G	5/06	English
	1-309242	12/89	Japan	H01J	37/06	Abst.
	11-162334	6/99	Japan	H01J	9/02	Abst.
	2000-57934	2/00	Japan	H01J	1/304	Abst.
	2000-86216	3/00	Japan	C01B	31/02	Abst.
	2000-90809	3/00	Japan	H01J	1/304	Abst.
	2001-288625 A	10/01	Japan	D01F	9/127	Abst., Counterpart U.S. Patent 2002/00009637 & EP 1 122 344
	0 433 507 A1	6/91	EPO	D01F	9/127	English
	03-260119	11/91	Japan	D01F	9/127	Abst. & Counterpart U.S. Patent 4,900,483
	2001-52598	2/01	Japan	H01J	1/316	Abst.
	2000-95509	4/00	Japan	C01B	31/02	Abst.
	0 451 208 B1	3/00	EPO	D01F	9/12	English
	2000-208028	7/00	Japan	H01J	1/304	Abst.
	0 936 650 A1	8/99	EPO	H01J	3/02	English
	2001-162600	06/19/01	Japan	B82B	1/00	Abst.
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	0 758 028 B1	09/11/02	EPO	D01F	9/127	English
	0 913 508 A3	5/99	EPO	D01F	9/127	English
	10-149760	06/02/98	Japan	H01J	1/30	Abst. & Counterpart U.S. Patent 6,097,138
	10-199398	07/31/98	Japan	H01J	1/30	Abst.
	1999-019614	03/15/99	Korea	H01J	1/30	Abst.
	05-211029	08/20/93	Japan	H01J	1/30	Abst.
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)			
	<b>W. Zhu Et Al., <i>Electron Field Emission From Nanostructured Diamond and Carbon Nanotubes</i>, Solid State Electronics, Vol. 45, 2001, pp. 921-928</b>		
	<b>J.M. Bonard Et Al., <i>Field Emission From Carbon Nanotubes: The First Five Years</i>, Solid State Electronics, Vol. 45, 2001, pp. 893-914</b>		
	<b>A.M. Rao et al., "In Situ-grown Carbon Nanotube Array of with Excellent Field Emission Characteristics," Applied Physics Letter, Vol. 76, No. 25, pp. 3813-3815 (2000).</b>		
	<b>Cheol Jin Lee et al., "Carbon Nanofibers Grown on Sodalime Glass at 500 °C Using Thermal Chemical Vapor Deposition," Chemical Physics Letters 340, pp. 413-418 (2001).</b>		
	<b>Sashiro Uemura et al., "Carbon Nanotube FED with Graphite-Nano-Fiber Emitters," ISSN 1083-1312, pp. 398-401.</b>		
	<b>Q. H. Wang et al., "A Nanotube-Based Field-Emission Flat Panel Display," Applied Physics Letters, Vol. 72, No. 22, June 1998, pp. 2912-2913</b>		
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